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(57) Abstract

PURPOSE: To prevent the divergence of control system even if a receiving point enters a fade zone by making a transmission antenna beam scan within its movable range until the control signal level of a transmission point exceeds a certain level under antenna beam scan control.

CONSTITUTION: A directivity variable transmission antenna 1 receives a control signal from receiving system through a control line 100, and inputs it to a mean signal power measurement circuit 2. A comparator 3 inputs mean power measured by the circuit 2, and compares it with a threshold, and outputs its size to switches 4, 5. In the case where the output of the comparator 3 is H, the switches 4, 5 select an antenna directivity control circuit 6, and antenna beam control is performed. In the case where the output of the comparator 3 is L, the switches 4, 5 select an antenna directivity scan circuit 7, and control shifts to the antenna beam scan control. In this beam scan control, the transmission antenna beam is made to scan within its movable range.

